

V.		
	Application No.	Applicant(s)
	10/021,748	MIKKOLA ET AL.
Notice of Allowability	Examiner	Art Unit
		·
	Lawrence B. Williams	2634
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. X This communication is responsive to After Final Amendment filed on 25 November 2005.		
2. The allowed claim(s) is/are 10-19, renumbered as 1-10, respectively.		
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the:		
Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of		
Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s)	E □ Notice of Informal □	Section (DTO 152)
1. Notice of References Cited (PTO-892)		ratent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	(PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	08), 7. ☐ Examiner's Amendr	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: The instant application discloses a method of transmitting frames of digital information over a wireless connection. A search of prior art records has failed to disclose a method comprising;

"said step performed in the transmitter comprises the substep of rearranging the sequence of bits within each frame of digital information that is to be convolutionally encoded and punctured, before convolutionally encoding and puncturing it, into an order that has been found to produce, during the course of convolutionally encoding with a certain convolutional code and puncturing with a certain puncturing pattern, a convolutionally encoded and punctured sequence where the statistical probability of transmission en-ors exhibits a predefined behaviour" along with the remaining limitations of claim 10.

"before convolutionally encoding and puncturing the sequence of bits within each frame of digital information that is to be convolutionally encoded and punctured, rearranging it into an order that has been found to produce, during the course of convolutionally encoding with a certain convolutional code and puncturing with a certain puncturing pattern, a convolutionally encoded and punctured sequence where the statistical probability of transmission errors exhibits predefined behaviour" along with the remaining limitations as disclosed in claim 15.

"observing and storing the statistical probability of transmission errors per bit position in the convolutionally encoded and punctured sequence that is produced in the transmitter, rearranging the bit positions within said certain sequence of bits within each frame of digital information so that the importance to a certain subjective signal quality of each bit position comes to inversely correspond to the observed and stored statistical probability of transmission

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errors per that bit position and storing the correspondence between the original bit positions and the rearranged bit positions as a rearranging table and the correspondence between the rearranged bit positions and the original bit positions as an inverse rearranging table" along with the remaining limitations of claim 17.

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Nor does the prior art teach a transmitter for processing frames of digital information before transmitting comprising: "rearranging means within each frame convolutionally for rearranging the sequence of bits digital information that to be encoded and punctured, before convolutionally encoding and puncturing into an order that has been found to produce, during course convolutionally encoding with certain convolutional code and puncturing with a certain puncturing pattern, convolutionally encoded and punctured sequence where the statistical probability of transmission errors exhibits predefined behaviour" along with the remaining limitations of claim 18.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

CONCLUSION

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence B Williams whose telephone number is 571-272-3037.

The examiner can normally be reached on Monday-Friday (8:00-5:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Vanderpuye can be reached on 571-272-3078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lawrence B. Williams

lbw

December 5, 2005

EMMANUEL BAYARD PRIMARY EXAMINER